



**NATIONAL MINIMUM TRAINING PROGRAMME
ON
COMPLIANCE, MONITORING AND ENFORCEMENT**
(August 1-30, 2011)

Day 1: 1/08/2011, Monday

Time	Topics	Speakers
10:30 -11:30	Registration	
11:30 -12:30	Review of programme schedule by participants	
12:30 – 1:00	About CSE	Aditya Batra, CSE
1:00- 1:30	Library visit	Kiran Pandey, CSE
Lunch: 1:30 – 2:30		
2:30 – 3:30	Environmental challenges in India	Chandra Bhushan, Deputy Director General, CSE
Tea: 3.30 – 3.45		
3.45 – 5.00	Movie: Source to Life	Film: Audio Visual Unit, CSE

Day 2: 2/08/2011, Tuesday

10:00 – 11:15	Poverty and Environment: Understanding the ecological basis of poverty in India	Richard Mahapatra, CSE
Tea: 11:15 – 11:30		
11:30 – 1:30	Key provisions of Water Act, landmark judgement, success stories and problem associated with Water Act	Dr Paritosh Tyagi Former Chairman, CPCB
Lunch: 1:30 – 2:30		
2:30 – 4:00	Key provisions of Air Act, landmark judgement, success stories and problem associated with Air Act	Dr B Sengupta Former Member Secretary, CPCB
Tea: 4:00 to 4:15		
4:15 – 6:00	Key landmark judgement and various environmental principles enunciated by the Supreme Court	Ritwick Dutta Advocate, EIA Resource and Response Centre

Day 3: 3/08/2011, Wednesday

10:00 – 12:00	Environment Protection Act - 1986, Various rules under EP Act, Implementation of EP Act 1986 through various agencies, Landmark judgement and some success stories under EP Act	Dr. Abraham P. Meachinkara, Advocate, Kerala High Court and Guest Faculty, Cochin University of Science and Technology
Tea: 12:00 – 12:15		
12:15 – 2:00	Evidence collection and legal sample collection under Water act, Protocol for prosecution under Water act	Dr V N Rayudu, Deputy Director Labs (Rtd), Tamil Nadu Pollution Control Board
Lunch: 2:00 – 3:00		
3:00 – 4:00	Evidence collection and legal sample collection under Air Act, Protocol for prosecution under Air Act	Dr V N Rayudu, Deputy Director, Labs (Rtd), Tamil Nadu Pollution Control Board
4:00 – 5:30	EP Rules – Hazardous wastes management, key objectives and provisions.	Dr. Abraham P. Meachinkara, Advocate, Kerala High Court and Guest Faculty, Cochin University of Science and Technology

Day 4: 4/08/2011, Thursday

10.00 – 11.45	Issues related with filing of affidavits in courts on pollution issues including class exercise on how to write affidavits.	Dr. Abraham P. Meachinkara, Advocate, Kerala High Court and Guest Faculty, Cochin University of Science and Technology
Tea: 11.30 – 11.45		
11:45 – 2:00	Ambient air quality standard – Rationale for fixing the standards and procedure followed	Dr B Sengupta Former Member Secretary, CPCB
Lunch: 2:00 – 3:00		

3:00 – 4:30	National Green Tribunal ■ Key Provisions ■ Comparative Analysis with International Green benches/tribunals	Dr. Abraham P. Meachinkara, Advocate, Kerala High Court and Guest Faculty, Cochin University of Science and Technology
4:30 – 5:00	Open House	

Day 5: 5/08/2011, Friday		
10.00 - 11.45	Thermal power plant – Pollution, Pollution Control and prevention and clean coal technology	Dr B Sengupta Former Member Secretary, CPCB
	Tea: 11.30 – 11.45	
11:45-1:30	Zero effluent discharge from bulk drug industries and distilleries	Dr B Sengupta, Former Member Secretary, CPCB
	Lunch: 1:30 – 2:30	
2:30 – 3:30	Movie: Clean your Act	
	Tea: 3:30-3:45	
3:45 – 5:00	Decentralised wastewater treatment	Deblina, CSE

Day 6: 6/08/2011, Saturday		
10.00 - 11.45	Concept of consent management, drafting, evaluating and processing of consent applications, application of IT in consent management	Dr DD Basu, Additional Director, CPCB
	Tea: 11.30 – 11.45	
11:45-1:30	Tools and techniques for data verification	Dr DD Basu, Additional Director, CPCB
	Lunch: 1:30 – 2:30	
2:30 – 4:30	Approaches to Environmental Data Analysis	Professor S. K. Neogy Indian Statistical Institute, New Delhi

Day 7: 7/08/2011 Sunday

Day-8: 8/08/2011, Monday		
10.00 - 11.45	Water quality objective and standard (surface and groundwater) – Rationale and procedure for fixing standard	Dr R C Trivedi Former Additional Director, CPCB
	Tea: 11.30 – 11.45	
11:45-1:30	Protocol for designing network for monitoring and assessment of ground and surface water, monitoring techniques and use of modern technologies for pollution monitoring	Dr R C Trivedi Former Additional Director, CPCB
	Lunch: 1:30 – 2:30	
2:30 – 4:00	Available Treatment technologies for CETPs, including advance technologies	Dr A K Mittal, Professor, IIT Delhi
	Tea: 4:00 – 4:15	
4:15 – 5:30	Protocol for inspection and monitoring of CETP	Shri Nazimuddin Environmental Engineer, CPCB

Day 9: 9/08/2011, Monday		
10.00 - 12:30	Ambient air quality and stack emission ■ Network design ■ Stack monitoring - Methodology ■ Meteorology	Dr Rajender Prasad Chief Executive, Ecotech Instruments
	Lunch: 12:30 – 1:30	
1:30 - 6:00	Field Visit: Ambient air quality monitoring for PM ₁₀ , PM _{2.5} , SO ₂ , NO _x and Ozone	

Day-10: 10/08/2011 Wednesday

10.00 – 11.45	Domestic waste water treatment technologies – Existing and Upcoming	Prof Vinod Tare, IIT Kanpur
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Tea: 11.30 – 11.45		
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11:45 – 1:30	Case study of Delhi STPs	Prof Vinod Tare, IIT Kanpur
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Lunch: 1:30 – 2:00		
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2:30 – 5:00	Field Visit: Okhla STP	
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Day 11: 11/08/2011, Thursday

10.00 – 11.45	E-Waste –Management , Applicable law and Best practices	Satish Sinha Associate Director, Toxics Link
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Tea: 11.30 – 11.45		
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11:45 – 1:30	Biomedical waste – Management ,Applicable Law and Best practices	Anu Agarwal, Consultant, Toxics Link
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Lunch: 1:30 – 2:30		
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2:30 – 4:00	Performance Evaluation of Air pollution control equipments with reference to cyclone, ESP and Baghouse	Dr H B Mathur Prof IIT Delhi (Rtd) and Distinguish Fellow, CSE
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Tea: 4:00 – 4:15		
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4:15 – 5:00	Iron and Steel – Pollution, pollution control and prevention	Umashankar, Coordinator, CSE
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Day 12: 12/08/2011, Friday

10.00 – 11.45	Air Quality Modelling	Shri J K Moitra, Managing Director EMTRC Consultants Pvt Ltd
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Tea: 11.30 – 11.45		
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11:45 – 1:30	Class exercise on air quality modelling	Shri J K Moitra, Managing Director EMTRC Consultants Pvt Ltd
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Lunch: 1:30 – 2:30		
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2:30 – 3:30	Understanding CEPI: Methodology, advantages and limitations	Prof Arvind Nema Associate Professor, IIT Delhi
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Tea: 3:30 – 3:45		
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3:45 – 5:00	CEPI calculation and class exercise	Nivit and Sanjeev, CSE
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Day 13: 13/08/2011, Saturday

Visit to NTPC Dadri

Day 14: 14/08/2011 Sunday OFF

Day 15: 15/08/2011 Monday, OFF

Day 16: 16/08/2011, Tuesday

10.00 – 11.30	GIS and Remote sensing tools in environmental planning and management	Shri G. Suryanarayana, Head – EQM Division and Manager, Centre for Spatial Environmental Planning, EPTRI
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11.30 – 12:30	Basic concepts of GIS, case studies using this tool	Shri G. Suryanarayana, Head – EQM Division and Manager, Centre for Spatial Environmental Planning, EPTRI
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12:30 – 1:30	Basic concepts RS, case studies using this tool	Shri G. Suryanarayana, Head – EQM Division and Manager, Centre for Spatial Environmental Planning, EPTRI
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Lunch: 1:30 – 2:30		
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2:30 – 5:00	Class exercise on GIS and RS	Shri G. Suryanarayana, Head – EQM Division and Manager, Centre for Spatial Environmental Planning, EPTRI
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Day 17: 17/08/2011, Wednesday

10:00 – 11:45	Mining: Environmental and social challenges and Environment Management Plan	Nivit Kumar Yadav Deputy Coordinator, CSE
	Tea: 11:30 – 11:45	
11:45 – 1:30	Sugar and Distillery: Pollution, pollution control and prevention	Sujit Kumar Singh Deputy Coordinator, CSE
	Lunch: 1:30 – 2:30	
2:30 – 3:30	Movie: Buddha Weeps	
3:30 – 5:00	Rainwater Harvesting: Design, operation and maintenance including site visit	Sushmita, CSE

Day 18: 18/08/2011, Thursday

10:00 – 12:30	Hazardous waste management: ■ Wastes disposal options, ■ Design criteria of TSDF, ■ Environmental risk with TSDF, ■ Protocol for inspection and monitoring of TSDF site	Dr. N. K Verma Former Additional Director, CPCB
12:30 – 1:30	Class exercise on Preparation of Inspection Report	
	Lunch: 1:30 – 2:30	
4:00	Depart for Chittorgarh	

Day 19: 19/08/2011, Friday**Chittor Cement Works – Plant visit****Day 20: 20/08/2011, Saturday****Chittor cement Works – Mine visit**

	Lunch: 1:30 – 2:30	
	Sight Seeing	
10:00	Depart for Ujjain	

Day-21, 21/08/2011, Sunday**Day 22: 22/08/2011, Monday**

10:00 – 1:30	Field Visit to Pratibha Syntex Limited	
	Lunch: 1:30 – 2:30	
2:30 – 5:00	Field Visit to Ramky Landfill Site	

Day 23: 23/08/2011, Tuesday

10:00 – 1:00	Field Visit to Tata Leather	
	Lunch 1:00 – 2:00	
2:00 – 4:00	Field Visit to Ranbaxy Pharmaceuticals Limited	
4:00	Depart for Delhi	

Day 24: 24/08/2011, Wednesday

	Lunch at CSE: 1:30 – 2:30	
2:30 – 5:00	Class exercise: Preparation of Inspection report	

Day 25: 25/08/2011, Thursday

10:00 – 11:15	Hazardous air pollutant assessment, monitoring and control	Dr B Sengupta Former Member Secretary, CPCB
	Tea: 11:15 – 11:30	
11:30 – 1:00	Air Toxics and its importance in air pollution control	Dr H B Mathur, Prof IIT Delhi (Rtd) and Distinguish Fellow, CSE
	Lunch: 1:00 – 1:30	

1:30 – 2:30	Sampling and analysis technique of VOC/BTX/PAH in air	Dr S K Tyagi, CPCB
2:30 – 5:00	Demonstration of ■ GC ■ HPLC ■ AAS ■ UV-VISIBLE	Dr Sapna Johnson, CSE Shri R K Sahu, CSE Dr Nimisha Jadon, CSE

Day 26: 26/08/2011, Friday		
10:00 – 11:15	Pesticides in the environment and their health affects	Prof H C Agarwal, Prof (Zoology) - Rtd, University of Delhi and Advisor, CSE
Tea: 11:15 – 11:30		
11:30 – 1:30	Sampling and analysis of physico-chemical pollutants in water and wastewater	Shri R K Sahu, CSE Dr Nimisha Jadon, CSE
Lunch: 1:30 – 2:30		
2:30 – 5:00	Sampling and analysis of pesticides and other toxic and heavy pollutants	Dr Sapna Johnson, CSE Shri R K Sahu, CSE

Day 27: 27/08/2011, Saturday		
10:00 - 11:15	About EIA, legal provisions, screening, scoping and impact assessment	Sujit, CSE
Tea: 11:15 – 11:30		
11:30 – 1:30	Public consultation	Kanchi Kohli, Kalpavriksh
Lunch: 1:30 – 2:30		
2:30 – 4:00	Nuclear Thermal Power Plant: Technologies and environmental issues	Dr H B Mathur, Prof IIT Delhi (Rtd) and Distinguish Fellow, CSE
4:00 – 5: 00	Class exercise and presentation	

Day 28: 28/08/2011, Sunday OFF

Day 29: 29/08/2011, Monday		
10:00 - 1:30	Group Exercise: Training Programme report	
Lunch: 1:30 – 2:30		
2:30 – 5:00	Group Exercise: Training Programme report	

Day 30: 30/08/2011, Tuesday		
10:00 – 12:30	Presentation: Training Programme report	
12:30 – 1:30 Concluding session		